



MESSAGE FROM MR. BRIAN MOORE DRAGON DAYA'S NEW MANAGING DIRECTOR



May I welcome you to our new magazine.
DRAGON WORLD, which is Dragon Data's first

of Dragon Data and am delighted to still you the of bragon Data and am delighted to still you the the company is now entering a very exciting the foil is development during which, over the next few months, we will be introducing new produand a whole new sange of softwee. Finally, may I take this promounts of wishing

INSIDE INFORMATION

Agant from the obvious step of renaming our ablication "DRAGON WORLD", one of the many surges in this issue is that we have brought in

more staff from within Diagon Date to help in production.

There are now representatives from the Customer Support Department, whose main a

Customer Support Department. Whose mains in life is to keep you happy, and one of the objectives of this magazine is to help do just if The Marketing Department is strongly represented, and this should mean that excell

opresented, and this should mean that excelented riflers are made available on a regular basis. We also have administrative help, which sho near this bi-monthly magazine reaches you or ime!

The central contributing team remains the san and all your old favourities such as "Machine Cod Corner" and "Young Users" Pages" will still be A more serious aspect is introduced in this issuwith details of the Diagon 64 and the application

MS AND OBJECTIVE

These are quate simple; we aim to help Dragot upons with information and also to help them contact other users to meet and exchange about in this part during beaset, you will his of their pages to have been also as an additional to the page However, there is a small catch last with resempting II. we need to hear from you with details of your club so that we can confine with these pages. We would also like to have your ideas and suppositions for father issues IDANACON WORTH. There are obviously certain IDANACON WORTH.

CONTRIBUTIONS

As previously with "STOP PRESS", all

monetary kind — but programs, articles and suggestions. All you need do, if you fancy goin into print, is to send us a copy of the program, preferably on classifier, with a written descript of what the program, these Articles and other.

The address for a

Dragon Data Ltd., Kentin Industrial II

Dragon Data Ltd., Kenfig Industrial Estate, Margam, Port Talbot,



User Club News Young Users' Pages

We have had many requests from users to sell

we shall hopefully be able to give you more notice

- HOPPY - one you have Hoppy repair a burn-

Hurry - if you don't want to miss this once in a

PLEASE NOTE

When typing in programs always make a

O REM EDITORIAL MESSAGE

20 FOR I-1 TO LEN(AS):PS-MIDS(AS,L1)



CLUB UST

J. Grittin.

BELGIUM

CHRISTMAS FAIR

RAGON CHRISTMAS

and address and will be returned on receipt.

DRAGON PUZZLE 3: SOLUTION 10 CLS:PRINT*DRAGON PUZZLE 3*

HIC PRINTSIANO ...

DRAGON PUZZLE 4

1Ø CLS:PRINTH1Ø, "DRAGON PUZZLE 4 20 PRINT(1259," ONE OF THREE 38 PRINT @ 328," ANOTHER ONE 40 PRINT@165."...."....

50 PRINT (COOK)," WHITE AT CHRISTMAS 90 PRINTS 198."---" FOLLOW IT FROM

70 PRINT(199."----".... 9/3 PRINT/0228 *----* CHRISTMAS CARDS

PRINTIFIX,CHRS(P+32)::NEXT,LI





Tornado

10 CLS: PRINTG/2014 "tornario": PRINTG/214

"GWITZERLAND"

100 D-8ND(175):F D<15 THEN 100 120 AA-RND(240) RR-RND(175)

CIRCLE(AA.RR) E+2 4 PAINT(AA.RR) 4.4

180 G ... IOYSTKI11: G ... G ... 1980 IF F := 247 THEN E = 247

250 IF PPOINT (F,G) = 4 THEN 280 ELSE 280 28/3 PLAY TESEDOCEDCOGFEEGREE

300 IF VV < U12 THEN SC+SC+50 210 U=U-1:IF UIC =8 THEN UI=34 340 IF CH-3 THEN 4000 ELSE 350 YOUR SCORE IS THE PRINT OF 192." "CH" DONE .. "3-CH" TO GO !"

DES PLAY TERCOCOCODEDGAFAG

380 PRINT: PRINT" PRESS SPACERAR

398 MS-INKEYS: MS-"THEN 390 ELSE IFMS=" THEN 40 FLSE IF MS

400 FOR A STOR CLSA PRINTING

438 CLS:SOUND 258,18:END

Spinning Ball

30 FORX - OTO 18TEPL 14/4/16/

DRAGON ANSWERS

Question
I have owned a DRAGON 32 computer for three months and have now encountered two probles.

months and have now encountered two problem with it:—

1. If the computer has to wait for an input for

approximately ten minutes or more bugs appear in the program and the program is lost if RESET is pressed.

control. Can you give me any help?

The two problems you have described are most probably related. In aggrest you chack for fluctuations in your domestic power supply during these "creatives". If these are apparent, a small line filter should allow you to overcome them. Also, check whether the apeed up POKE (65-495,8.1, or hose who are unawhere) is wood, as this may also

the same adverse affects.

If naither of these points are apparent, you may have a problem with your machine. Your best course of action would be to get the machine.

corriect to my DRAGON 32, but an a little corriect by the terms used to describe monitors.

1. What is PAL?

 Does the DRAGON need a composite signal or RGB?
 Can you recommend any particular monitor?

The DRAGON's monitor socket allows correction with a PAL monitor (PHASE AL FERNATE LINE) using a composite video sign fine impedance should be matched and as the DRAGON has an impedance of approximately 3 show, and most monitors have 75 ohm, you may seed to have the robbs matched.

Limitudure has an impediance of approximately \$1 ohm, and most monitions have 75 ohm, you may need to have the cable modified.

While I cannot recommend any particular monitor, we have had good reports from people using monitors by MICROVITEC, LLOOPI and the

Question
Have Diagon Data Limited got a word
processing package available as yet? I have seen
some commercially produced packages, but I fo
ITG for a cassers to be a little steep, even for a
word processor.

Dragon Data Limited will have a wood processor wilable in the near froume called SLPER DRAZOR RITER II. This will repail at C49.95. It will be on tridge and will come with complete currentation. It will give a 51 x 24 ser, with auto-repeat on all keys, It will also

sceen, with auto-expect on all lays. If will also have upon and lower case characters. Its facilities include 80 column width for use with correspondence quality printers, the ability is awe standard letters and passgraphs onto cassette, and it will also have the ability to access all the penter's appearable character output modes direct from the package.

and in the package there were the software Biblis "Personal Princes" and Selection II. After experimenting with garness and my own programs I attempted to use "Personal Prisance" and Selection II to help with the household accounts and to "compresses" my record collection. After many attempts of residenting my data, I kept having ID excess in 450°C. when the Fine walls Spot. It was ID excess in 450°C. when the Tine walls Spot. It was the selection of t

we your imp places?
We are aware of the problem some people are specifieding MATA files been an usually caused by the Automatic young levels used in most modern reconstructions file (International Conference on the Automatic young) levels used in most modern resonates.

when saving DATA, the fleeder may be seved at a olume olightly too low for the DRASON to ecogetic. This would give the LO princy you have restrained. Suggest that, before creating the loa, you FOKE 144.3. This reloce the DRASON's conder to seven it correctly.

DRAGON 32 and find it frustrating, when listing a program, that the screen flashes past at a ndiculously fast speed, is there any way of slowin down the scroll speed?

wn the scroll speed?

swer

fou aim slow down the DRAGON's character

SWED STATES

POKE &H169, &H13 POKE &H169, &H13 POKE &H169, &H13

readable. To reset it POKE the numbers with if you have any queries you would like answered on these pages, then please with Dragon Answers Back' at the editorial add We regret that, initially, we will be unable to



Well it's nearly Christmas and I expect you are looking forward to the school helidays and lots of presents and good food. Your page this week contains programs for Christmas, one to help you get ready, a game to play and a program to help you write those thank-you letters. They all need to be typed wery controlly so take your time or ask

spirit or goodwill!

The first program-shows a Christmas tree which meets changing. Chages will provide a rougher sold meet an experiment of the program of the provide provide meets which you can discosse the time. When you first program, our can be that the condition of a Part the did where you want the middle of a Part the did where you want the middle of a Part the did where you want the processor of the provide of the provid

in back type SCREEN I.S. CO TO 1983 New you can light the tree with cardies and pile up present underseath it. (The dot in this program moves in the same wy, as the dot in the ISLANDS program. In fact lines 5509-550 are lifted straight from that program and fyour have slaved a version of ISLANDS you can

DEL-499: DEL551you can now type in the rest of the lines of the CHRISTMAS TREE. You could also alter it to run

OFFICE AND CONTROL OF THE CONTROL OF

X=128:Y=98:RA=8:D=8:L=2 30 SS=CHRS(8)+CHRS(9)+CHRS(94)+CHRS 1(9)+CHRS(32) 40 DEF FNC 00=-(X+2)+IP<5)+IP=5)+IP=51:S18=* 012348PC*:C=3 50 PM0DE 3.1 PCI SUIFI-9CRFEN1 0 70 FOR I=1 TO 4:DRAW DS:NEXT:PAINT(1,1), BR:PAINTIX,Y,0,8 80 LINE(124,147)—[122,160],PSET,8F 90 LINE(124,669)—[142,160],PSET,8F 100 P=PP(INTIX,Y):PSETOX,Y;PNCIP](:XP=X VP=Y;00(18)1000

U=8 128 GOTO188 288 CRCLEOXYLRA,C:PAINTIX,Y),C,C: RETURN

RETURN

388 C2=FNCIC):COLOR C:LINE(X+D, Y+D)-(X-D,Y-D),PSET:B:PAINTIX,Y,I,C 318 COLOR C2:LINE(X+D,Y)-(X-D,Y,PSET: LINE(X-Y+D)-0.Y-D),PSET

LINE(X,Y+0)=0,CY=01,PSET
320 RETURN
450 COLOR C:XX=X+0,2:YY=Y+3+0,2:
GOSUBB00
410 DRAW*SM* = \$TR\$0.NT(X+0,40+1,7)

410 DRAW"BM"+STRSINT(X+D-4()+"," +STRSINT(Y)I+";C2BU3U2E2D3" 429 RETURN 500 KS-INKEYS:IFKS-""THEN 590

510 U=INSTRIT, SEXS; IF IJ=5 THEN JU=S: RETURN 520 I=(SCN)J=2.5)+1)2:JJ=IJ=24-1.5 530 IF0IJ=CLTHEN D(I)=L+1:GOTO660

54D # D(0>256-L THEN D(0=256-L ELSE D(0=D(0+SGN)LJ)+L 559 X=D(0)+SGN)LJ)+RETURN 600 COLOR C/LINELX,YI—OOX,YYLPSET,BF: RETURN

780 IS-INKEYS IN-INSTRIT, S1S JS: IF IN<2 THEN 700 710 IF IN<5 THEN C-IN-1: RETURN 720 ON IN-5 GOSUS 200 200 400 RETURN

HOLES

Now we have a game called HOLES which is for one or two players. The aim is to get your counter to the other end of the board. But beware some of the holes are not believed to the control of the board.

The globos on blobs down which your obstacl the globos on blobs down which your obstacl on your opporent! When it is your barr you can move your control story the left and right arow keys. If you went to move only one place, press the enter key after your move. You have four counters or leves. The winners the longow. I REM HOLES M.PEARSON.1.1Y.83. 18 DM ATCH, ASCTIP, 855—168(140); C.S.: 18 DM ATCH, 850; C.S.: 1

28 FORU-8T02:FORK-8T0 5:AT(1-6+K)=128-J-4-K+66:AS(J)=8:NEXTK_J :=1 38 FOR I=1T02:NPUT*PLAYER'S NAME*;

NS(I):F NS(I)=""THEN60" 40 ES=CHRS(143+I+16): NS(I)=ES+ES+ES+BS+ES+BS+ES 50 GHS(I)=FS.NEXT.P(01=1-P(1)=1

59 GHBI0=LS:NEXT:PI0|=1:P(1)=17 60 N=I=1:FN<1THEN END 65 PG(0)=P(0):PG(1)=P(1):I=1: DEF FN(1):=-(1=2)-2*(I=1)

B(I)

FOR I=1 TO 6: CCS=CCS+CS:NEXT 20 FOR I=1 TO 7: GOSUR170: A\$10=15: PRINTEGS: NEXT,J:PRINT BIRS: NEXT;:1=1 104 I=RND(N) 40 CLS-00SUR170-08441-88+18+** 105 FOR K=1TO2-AS/KI=PO/KI PRINT(#ATIPOIK), GHS/KI::NEXT NEXT: G\$(6) = G\$(6)+ 115 IF PO(I)=PIFNEIII THEN SO(I)=SC(I)+1: POTI-PILIPLAY*TISOSCOFF*:NOTI-NOTI+1 70 L=30-L:CLS:FOR I=1 TO 6:F ASID< >** 128 PLAY" #RT1#CGCGCGCC" GOT 480 CLS4 PRINTS(100 NCIFNITO SCINEXT PRINTTABILITIAS (20) (AS(7); BS: AS(8) 1000 PRINTS(448 MIDS:NSII)...1+2+NO3[]; " 120 PRINT TABLE GSHI CS 1166 J=PQ(0:PP(0=J:AS(J)=Ø

1140 SOUND100.1:SOUND50.1 1150 IF NCITI-4THEN 400 1160 BETURN 2000 FOR TT - OTDOOR NEXT RETURN 3000 GOSUB4000:IF K\$=CHR\$(8) ANDJ>6 THEN PRINTING TO CHRW 1281 1 July 1

3030 PRINT((ATL/LGHS(I));:GOSUB2000 PRINT((ATL/LGHS(IGG)); 3840 C=C+1:IF K\$=CHR\$(32)OR C=2 THEN PO31-J:SOUND 100,1:

1128 C=8: G08UKNOSE

1130 IF ASUIT OTHER ASUIT LIFETURA

THANK-YOUS

110 PRINTTABIAL::FORI-2 TO 6:PRINTGSID:

120 PRINT TABLE : G\$(7): ". "G\$(8): "." 140 PRINT: PRINT: INPLIT" ANOTHER 150 IF WILL "Y" THEN RESTORE FOR I ... 1 TO 8

1 REM LETTERS M. PEARSON, NOV 80 10 CLS:T=1:85=" ":05="7":C5=".":

210 PRIII-DS PRINT NEXT PRINTSS, INPUTX G\$(J)=P\$(X):CLS:RETURN

GAVE IT (GRANDMA GRANDPA NANA UNCLE AUNT AUNTIE MR MRS MISSI 24D DATA ENTER A NUMBER 6.3 WAS IT-250 DATA 4.6 WILL YOU FNJOY- USING IT

5 I SHALL ENJOY 7 I HOPE YOU

MACHINE CODE CORNER

\$7FFD/E and \$7FFF. Y is loaded with 990/2

recisters available on the 69009. It is called the

10 SE 2710

+2503 CMPA

CMPA LASLET

LOOPS

LOOP2 BE 7F ED

CMPB #SFG RHS SCREEN CMPB #580 NOING ADDR #810 60 FOR Z=0 TO 15 STEP 2 78 J=Z:F0R I=Z TO 63-Z:SETILJ:FNA/ZI 80 I=63-Z:FOR J=Z TO 31-2 90 J=31-Z:FOR I=63-Z TO 2 STEP=1-1001=2:FOR.1=31=2 TO 2 STEP =1 SETILLENAIZO-NEXT 11@NEXT

190 P=P+1:RFAD R\$-FR\$=*END**THEN +20 183 V=VALCAH* +RELT=T+V 18G PRINT TERROR IN DATA": PRINT: PRINT:

200 DATA C4.7F.26.F7

you reed a book called "Programming The 6809"

Here is an assembly listing of the machin



10 TIMER - 0: FOR I - 1 TO 1000

10 TIMER = 0:FOR I=1 TO 1000:X=A+R+C 20 PRINT TIMER

10 DEF FNXIXI | AA+(BB-AA)+(X-A)(B-A)

38 PMODE4 1 SCREEN 1 PCLS1 COLORS 1

5Ø FOR I=1 TO 6 100 NEXTI

20 READ N FORI- ITON READP W.C.H.

18 REM STAR A M. SYKES NOV 83 28 PMODE4,1:SCREEN1,1:PCLSB 38 FORU=1TO4 46 N=16:FORK=1TO 8:READ ARC:NEXTR 56 FOR I=6/TO 16/2=IN:FORK=1TO 7 STE 57 FOR I=6/TO 16/2=IN:FORK=1TO 7 STE

80 PAINT (125,55) 80 GOTO39 100 DATA125,115,036,136,125,95,0 110 DATA125,115,192,95,135,125,95,0



The use of DATA statements can be pursued further to control the baseoling of the program to different subsoutines and it is indeed possible for long programs of a repetitive nature to be constituted by changing the program "surpe" into DATA softenties. The following program can be expected that and you can see

18 CLS:PM0DE4,1:PCLS1:COLOR4,1 20 READ S:FOR J=1 TO S 30 READ FS:F FS=1 THEN READ XS 40 READ NM:FOR I=1 TO N:READ XID:NEXT 50 ON M GOS JESSOS 2340 3441 3451

SØ NEXTJ 78 GOTO78 88 DATA13 96 DATA1SE DRAGON USE A LINE COMMAND

1,5,64 100 DATAG,1,4,1000 110 DATAG,4,1,20,10,60,50 120 DATAG,1,4,2003

148 DATAB.1.4.1888 168 DATAB.4.2.78.18,168,58 168 DATAB.1.4.2088 178 DATAB.1.4.2088 178 DATAB.1.608 SEE IT FILL A BOX.1.5.192 188 DATAB.1.4.1888

188 DATAS, 1,4,1000 180 DATAS, 4,2,80,90,140,160 280 DATAS, 1,4,2000 210 DATAI, THE END, 1,5,258 220 SCREENI, 1,1,10,6(x)1,1004,...,000

230 SCREEN1,1:LINEO(1),X[2])—[X[3], X[4]),PSET,B:RETURN 240 SCREEN1:LINEO(X),X[2])—[X[3], X[4]),PSET,B:RETURN 250 FOR I=1 TO X[1]:NEXTI:RETURN you can see from these illustrative programs, ITA statements provide a very effective means condensing programs into manageable portrans. It is not suspraing therefore that you I find them in constant use elsewhere in this

RAGON DATA MITED APPROVED PRODUCTS

The Anatomy of The Diagon' by Mike James Published by Sigma Technical Press.

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